In the Claims:

Please delete the heading "Claims" and insert -- What is Claimed is: -- therefor.

Please amend the claims as follows:

- 1. (currently amended) Apparatus An apparatus for detecting an object, the apparatus comprising:
 - a light source adapted to emit a beam of light at wavelengths absorbed by the object or a coating thereon;
 - a detector adapted to detect light at wavelengths fluoresced by the object or coating thereon;
 - a processor adapted to determine the presence of an object from the light detected by the detector; and
 - on oscillator to modulate the light source; wherein the processor includes a mixer, which receives the modulation signal from the oscillator, and a signal from the detector.
- 2. (currently amended) Apparatus The apparatus as claimed in claim [[2]] 1, further including a driver circuit.
- 3. (currently amended) Apparatus The apparatus as claimed in elaim 1 or claim 2, wherein the processor further includes a low-pass filter which is adapted to pass signals of a significant magnitude if a coherent signal averaged over time is present.
- 4. (currently amended) Apparatus The apparatus as claimed in claim 3, wherein the processor further includes a threshold detector, which compares the signal from the low-pass filter with a predetermined threshold, and sends a signal to an indicator [[is]] if the signal exceeds the threshold, to indicate the presence of a ball.

- 5. (currently amended) Apparatus The apparatus as claimed in claim 1, wherein the modulation will be in the frequency range 10 Hz to 100MHz.
- 6. (currently amended) A method for locating lost objects, the objects having a coating which absorbs light at one wavelength, and fluoresces at a second wavelength; the method consisting in the steps of:
 - providing a bead of light having a wavelength absorbed by the coating on the object;
 - detecting light of wavelengths fluoresced by the object to be located; and
 - determining from the light detected the presence or otherwise of the object.
- 7. (new) The apparatus as claimed in claim 1, wherein the processor further includes a low-pass filter which is adapted to pass signals of a significant magnitude if a coherent signal averaged over time is present.
- 8. (new) The apparatus as claimed in claim 7, wherein the processor further includes a threshold detector, which compares the signal from the low-pass filter with a predetermined threshold, and sends a signal to an indicator if the signal exceeds the threshold, to indicate the presence of a ball.